Canada

Department of Northern Affairs and National Resources

FORESTRY BRANCH

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PREVENT FOREST FIRES

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FOREST AREAS

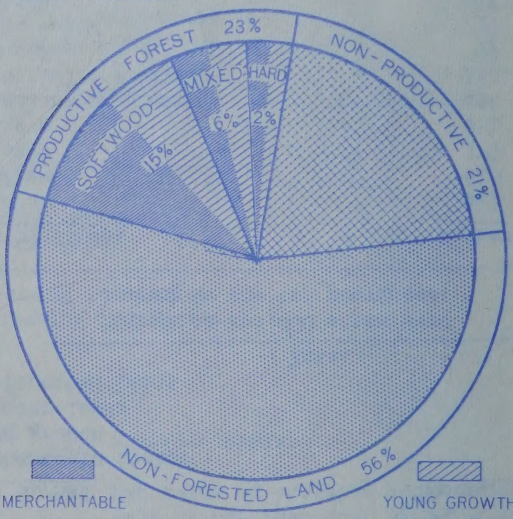
1955

Net Area in Thousands of Acres

	Merchantable	Young Growth	Total
Softwoods	215,595	126,104	341,699
Mixedwoods	63,436	71,466	134,902
Hardwoods	20,281	32,817	53,098
Total Productive	299,312	230,387	*529,699
Non-productive forests			473,512
Total forest area			1,003,211

Total land area	
Thousands of acres	2,289,384
Square miles	3,577,163

*About 373 million acres are considered to be accessible and 157 million acres inaccessible.



Note: Forests occupy 61 per cent of the land area of the ten provinces and 44 per cent of the land area of Canada.

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MERCHANTABLE TIMBER

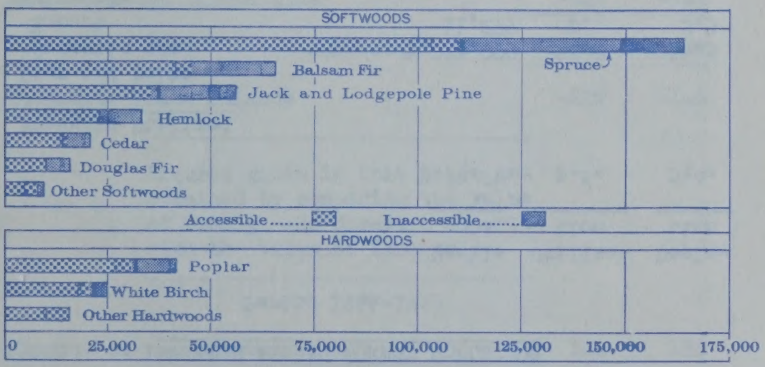
1955

	Softwoods	Hardwoods	Total
	Millions of cubic feet		
Accessible	245,345	67,457	312,802
Inaccessible	120,506	15,930	136,436
Total volume	365,851	83,387	449,238

Accessible	Saw Timber[1]	Smaller Material[2]
	Millions of ft.b.m.	Millions of cords
Softwoods	622,405	1,422
Hardwoods	122,933	504
Total	745,338	1,926

[1]This estimate includes all trees large enough to produce sawlogs. [2]Includes trees too small for sawing, but salable as pulpwood, fuelwood, etc.

MERCHANTABLE TIMBER BY SPECIES



FOREST FIRE STATISTICS

1954

Areas Burned	Thousands of Acres
Merchantable timber	80
Young growth	144
Cut-over lands	39
Non-forested lands	1,134
Total	*1,397

*Of which 266,000 acres were burned in the ten provinces.

Fires by Causes	Number	Per Cent
Smokers	527	16.8
Campfires	615	19.6
Railways	329	10.5
Settlers	251	8.0
Miscellaneous known	454	14.5
Industrial operations	153	4.9
Incendiary	99	3.1
Public works	53	1.7
Lightning	463	14.8
Unknown	190	6.1
Total	3,134	100.0

Merchantable Timber Burned	M Cubic Feet
Saw timber (46,869 M. ft.b.m.)	9,374
Small material (845 M. cords)	71,796
Total	81,170

Estimated Values Destroyed	$000's
On forest areas**	1,658
Other property	288

**Based on stumpage rates; figures do not include damage to soil, stream-flow, wildlife, recreation and tourist facilities, or the enhanced values resulting from silviculture and management practices.

Costs of Protection	$000's
Actual fire fighting costs only, 1954***	969
Other fire protection costs, 1953	15,300

*** Does not include Newfoundland.

AVERAGE ANNUAL FOREST DEPLETION

Period 1944-1953

	Usable wood	Utilization	Depletion
	M.cu.ft.	p.c.	p.c.
Products Utilized			
Logs and bolts			
Domestic use	1,223,009	38.9	36.5
Export	11,279	0.4	0.3
Pulpwood			
Domestic use	848,239	27.0	25.4
Export	168,197	5.4	5.0
Fuelwood	779,269	24.8	23.3
Hewn railway ties	4,184	0.1	0.1
Pit props	27,621	0.9	0.8
Poles, posts, rails	40,310	1.3	1.2
Miscellaneous products	38,536	1.2	1.2
Total Utilization	3,140,644	100.0	93.8
Wastage by forest fires	207,165		6.2
Depletion	3,347,809		100.0

The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases, and natural mortality, for which no reliable estimates are available.

It represents an average annual depletion of 9 cubic feet per acre on the accessible productive forest area. However, a much higher rate of depletion occurs on the occupied productive forest lands.

FOREST INDUSTRIES

1953

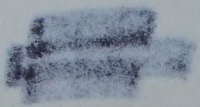
Employment	Employees Number	Salaries & Wages $000's
Woods operations	135,981(1)	463,000
Pulp and paper	58,194	235,742
Sawmills	60,933	142,131
Wood-using industries	73,377	183,488
Paper-using industries	26,242	74,366
Total	354,727	1,098,727

Net Value of Products (2)	$000's
Woods operations	643,318
Pulp and paper	599,935
Sawmills	269,066
Wood-using industries	308,316
Paper-using industries	167,339
Total	1,987,974

Gross Value of Products	$000's
Woods operations	783,547
Pulp and paper	1,179,665
Sawmills	580,694
Wood-using industries	661,321
Paper-using industries	388,585

(1) Man-year basis.

(2) Net value of products is gross or sale value, less cost of materials, fuel, purchased electricity, and process supplies consumed.



EXTERNAL TRADE

Balance of Trade (excluding gold)
In Millions of Dollars

Wood, Wood Products and Paper

1953	1954		1953	1954
+943 U.S.A.	+958	Lumber	+264	+306
+106 U.K.	+142	Wood pulp	+244	+266
+ 84 Others	+113	Newsprint	+619	+636
		Balance	+ 8	+ 5
+1,135	+1,213	Sub-total	+1,135	+1,213

Other Commodities

Agricultural products	+610	+265
Animals and animal products	+166	+188
Fibres, textiles, and textile products	-359	-308
Iron and its products	-1,152	-996
Non-ferrous metals and their products	+323	+357
Non-metallic minerals and their products	-503	-446
Chemicals and allied products	- 82	- 57
Miscellaneous commodities	-348	-362
Sub-total	-1,345	-1,359
Commodity Trade Balance	-210	-146

Figures given in this table are obtained by comparing the value of foreign and domestic exports with the value of imports.

Exports of non-monetary gold	144	155

FOREST LAND TENURE

1955

Occupied Crown Lands	Gross Area thousand acres
Pulpwood licences	127,679
Saw timber licences	20,461
Timber sales	3,013
Permit berths	425
Sub-total	151,578
Privately-owned Forest Lands	
Farm woodlots	39,392
Other private lands	52,116
Sub-total	91,508
Total Occupied Forest Lands	243,086

RESERVES AND PARKS

1955

	Gross Area thousand acres
National Parks	18,699
Provincial Parks	16,851
Provincial Forest Reserves*	51,146
Indian Reserves	5,496
Federal Forest Experiment Stations	119**
Total	92,311

* Not included are the "Provincial Forests" of Saskatchewan, which total 88,542 thousand acres.

** An additional experiment station of 16 thousand acres is included in a National Park.

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FOREST AREAS

1956

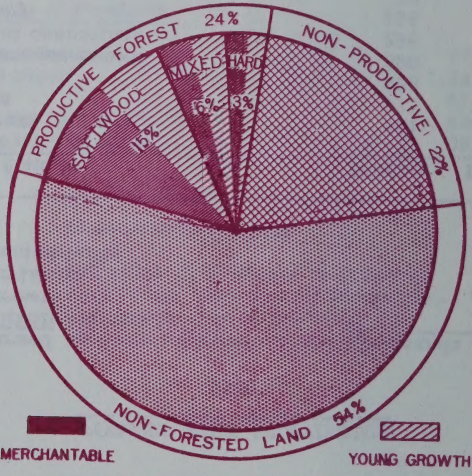
Net area in Millions of acres

	Merchantable	Young Growth	Total
Softwoods	218	130	348
Mixedwoods	60	70	130
Hardwoods	20	39	59
Total productive	298	239	* 537
Non-productive forests			500
Total forest area			1,037

Total land area

Millions of acres	2,279
Thousands of square miles	3,560

* About 411 million acres are considered to be accessible and 126 million acres potentially accessible.



Note: Forests occupy 64 per cent of the land area of the ten provinces and 46 per cent of the land area of Canada.

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MERCHANTABLE TIMBER

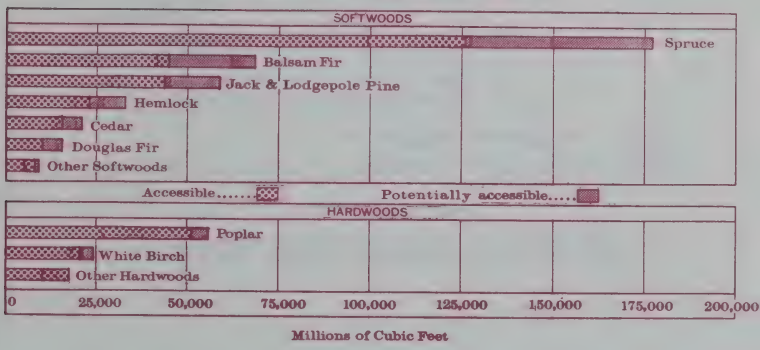
1956

	Softwoods	Hardwoods	Total
	Millions of cubic feet		
Accessible	273,598	89,668	363,266
Potentially accessible	110,574	8,936	119,510
Total volume	384,172	98,604	482,776

Accessible	Saw Timber[1]	Smaller Material[2]
	Millions of ft. b.m.	Millions of cords
Softwoods	683,177	1,612
Hardwoods	188,975	610
Total	872,152	2,222

[1]This estimate includes all trees large enough to produce sawlogs. [2]Includes trees too small for sawing, but saleable as pulpwood, fuelwood, etc.

MERCHANTABLE TIMBER BY SPECIES



FOREST FIRE STATISTICS

1955

Areas Burned	Thousands of Acres
Merchantable timber	349
Young growth	297
Cut-over lands	566
Non-forested lands	402
Total	1,614

Fires by Causes	Number	Per Cent
Smokers	1,195	18.3
Campfires	941	14.5
Railways	575	8.8
Settlers	632	9.7
Miscellaneous known	390	6.0
Industrial operations	296	4.5
Incendiary	156	2.4
Public works	79	1.2
Lightning	1,947	29.9
Unknown	305	4.7
Total	6,516	100.0

Merchantable Timber Burned		M Cubic Feet
Saw timber	(263,690 M. ft.b.m.)	52,738
Small material	(2,330 M. cords)	198,032
	Total	250,770

Estimated Values Destroyed	$000's
On forest areas *	6,092
Other property	1,356

* Based on stumpage rates; figures do not include damage to soil, stream-flow, wildlife, recreation and tourist facilities, or the enhanced values resulting from silviculture and management practices.

Costs of Protection	$000's
Actual fire fighting costs only, 1955	6,681
Other fire protection costs, 1954	16,200

AVERAGE ANNUAL FOREST DEPLETION

Period 1950-1954

	Usable wood	Utilization	Depletion
	M.cu.ft.	%	%
Products Utilized			
Logs and bolts			
Domestic use	1,459,066	46.0	43.7
Export	9,395	0.3	0.3
Pulpwood			
Domestic use	1,088,235	34.3	32.6
Export	180,663	5.7	5.4
Fuelwood	361,464	11.4	10.8
Hewn railway ties	2,510	0.1	0.1
Pit props	28,843	0.9	0.8
Poles, posts, rails	36,631	1.1	1.1
Miscellaneous products	6,464	0.2	0.2
Total Utilization	3,173,271	100.0	95.0
Wastage by forest fires *	166,000		5.0
Depletion	3,339,271		100.0

The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases, and natural mortality, for which no reliable estimates are available. It represents an average annual depletion of 8 cubic feet per acre on the accessible productive forest area. However, a much higher rate of depletion occurs on the occupied productive forest lands.

* Wastage by fire based on 1945-54 average. Does not include Newfoundland.

FOREST INDUSTRIES

1954

Values in Millions of Dollars

Employment	No. of Employees	Salaries & Wages
Woods operations	135,051 *	471
Pulp and paper	60,837	253
Sawmills	57,010	139
Wood-using industries	71,921	184
Paper-using industries	26,533	79
Total	351,352	1,126
Net Value of Products **		
Woods operations		629
Pulp and paper		641
Sawmills		264
Wood-using industries		303
Paper-using industries		161
Total		1,998
Gross Value of Products		
Woods operations		777
Pulp and paper		1,242
Sawmills		572
Wood-using industries		635
Paper-using industries		391

* Man-year basis.

** Net value of products is gross or sale value, less cost of materials, fuel, purchased electricity, and process supplies consumed.

EXTERNAL TRADE

Balance of Trade (excluding gold)
In Millions of Dollars

Wood, Wood Products and Paper

1954	1955		1954	1955
+958 U.S.A.	+1,045	Lumber	+306	+360
+142 U.K.	+152	Wood pulp	+266	+290
+113 Others	+129	Newsprint	+636	+666
		Balance	+ 5	+ 10
+1,213	+1,326	Sub-total	+1,213	+1,326

Other Commodities

Agricultural products	+265	+189
Animals and animal products	+188	+159
Fibres, textiles, and textile products	-308	-356
Iron and its products	-996	-1,178
Non-ferrous metals and their products	+357	+434
Non-metallic minerals and their products	-446	-448
Chemicals and allied products	- 57	- 48
Miscellaneous commodities	-362	-438
Sub-total	-1,359	-1,686
Commodity Trade Balance	-146	-360

Figures given in this table are obtained by comparing the value of foreign and domestic exports with the value of imports.

Exports of non-monetary gold	155	155

FOREST LAND TENURE

1956

In Thousands of Acres

Occupied Forest Lands		Net Area
Provincial Crown		
Leases and licences		115,346
Permits and sales		3,456
	Sub-total	118,802
Federal Crown		
Leases and licences		203
Other lands		2,559
	Sub-total	2,762
Privately-owned		
Farm woodlots		22,780
Other private lands		31,887
	Sub-total	54,667
Total Occupied Forest Lands		176,231

RESERVES AND PARKS

1956

In Thousands of Acres

	Gross Area
National Parks	18,690
Provincial Forest Reserves and Parks *	74,868
Indian Reserves	5,874
Federal Forest Experiment Stations **	119
Total	99,551

* Not included are the "Provincial Forests" of Saskatchewan, which total 86,610 thousand acres.

** An additional experiment station of 16 thousand acres is included in a National Park.

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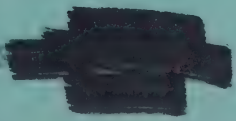

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FOREST AREAS

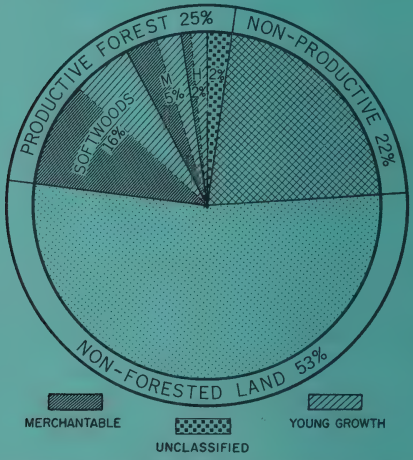
1957

Net area in millions of acres

	Merchantable	Young Growth	Total
Softwoods	225	125	350
Mixedwoods	65	53	118
Hardwoods	21	30	51
Sub-total	311	208	519
Unclassified*			52
Total productive			** 571
Non-productive forests			494
Total forest area			1,065
Total land area - Millions of acres			2,279
- Thousands of square miles			3,560

* Productive forest land not yet restocked

** About 407 million acres are considered to be accessible and 164 million acres potentially accessible.



Note: Forests occupy 66 per cent of the land area of the ten provinces and 47 per cent of the land area of Canada.

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MERCHANTABLE TIMBER

1957

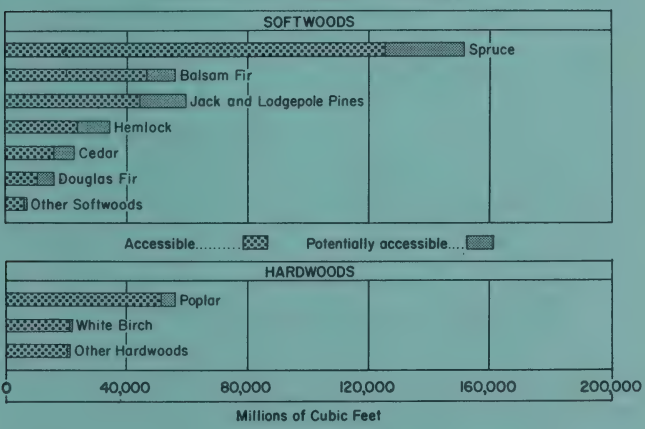
	Softwoods	Hardwoods	Total
	Millions of cubic feet		
Accessible	275,077	92,482	367,559
Potentially accessible[1]	74,115	5,347	79,462
Total volume	349,192	97,829	447,021

Accessible	Saw Timber[2]	Smaller Material[3]
	Millions of ft. b.m.	Millions of cords
Softwoods	689,022	1,615
Hardwoods	196,455	626
Total	885,477	2,241

[1]Estimates for Ontario and Quebec are not available.

[2]This estimate includes all trees large enough to produce sawlogs. [3]Includes trees too small for sawing, but salable as pulpwood, fuelwood, etc.

MERCHANTABLE TIMBER BY SPECIES



FOREST FIRE STATISTICS

1956

Areas Burned	Thousands of Acres
Merchantable timber	648
Young growth	538
Cut-over lands	168
Non-forested lands	753
Total	2,107

Fires by Causes	Number	Per Cent
Smokers	709	12.7
Campfires	734	13.1
Railways	1,334	23.9
Settlers	391	7.0
Miscellaneous known	525	9.4
Industrial operations	308	5.5
Incendiary	115	2.1
Public works	97	1.7
Lightning	1,194	21.4
Unknown	178	3.2
Total	5,585	100.0

Merchantable Timber Burned		M Cubic Feet
Saw timber	(563,953 M. ft. b.m.)	112,791
Small material	(6,827 M. cords)	580,320
	Total	693,111

Estimated Values Destroyed	$000's
On forest areas *	14,199
Other property	313

* Based on stumpage rates; figures do not include damage to soil, stream-flow, wildlife, recreation and tourist facilities, or the enhanced values resulting from silviculture and management practices.

Costs of Protection	$000's
Actual fire fighting costs only, 1956	2,880
Other fire protection costs, 1955	19,000

AVERAGE ANNUAL FOREST DEPLETION

Period 1946-1955

	Usable wood	Utilization	Depletion
	M.cu.ft.	%	%
Products Utilized			
Logs and bolts			
Domestic use	1,394,904	45.2	42.6
Export	10,545	0.3	0.3
Pulpwood			
Domestic use	1,020,274	33.1	31.1
Export	174,791	5.7	5.3
Fuelwood	401,779	13.0	12.3
Hewn railway ties	3,283	0.1	0.1
Pit props	32,558	1.1	1.0
Poles, posts, rails	38,551	1.3	1.2
Miscellaneous products	6,024	0.2	0.2
Total Utilization	3,082,709	100.0	94.1
Wastage by forest fires *	193,050		5.9
Depletion	3,275,759		100.0

The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases, and natural mortality, for which no reliable estimates are available. It represents an average annual depletion of 8 cubic feet per acre on the accessible productive forest area. However, a much higher rate of depletion occurs on the occupied productive forest lands.

* Does not include Newfoundland.

FOREST INDUSTRIES

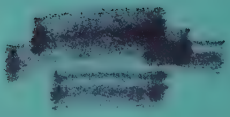
1955

Values in millions of dollars

Employment	No. of Employees	Salaries & Wages
Woods operations	149,000*	506
Pulp and paper	62,205	265
Sawmills	58,586	153
Wood-using industries	75,087	202
Paper-using industries	27,545	84
Total	372,423	1,210
Net Value of Products **		
Woods operations		729
Pulp and paper		690
Sawmills		297
Wood-using industries		335
Paper-using industries		177
Total		2,228
Gross Value of Products		
Woods operations		830
Pulp and paper		1,327
Sawmills		644
Wood-using industries		730
Paper-using industries		428

* Man-year basis.

** Net value of products is gross or sale value, less cost of materials, fuel, purchased electricity, and process supplies consumed.



EXTERNAL TRADE

Balance of Trade (excluding gold)
In millions of dollars

Wood, Wood Products and Paper

1955		1956		1955	1956
+1,045	U.S.A.	+1,044	Lumber	+ 360	+ 295
+ 152	U.K.	+ 129	Woodpulp	+ 290	+ 295
+ 129	Others	+ 115	Newsprint	+ 666	+ 708
			Other Products	+ 10	- 10
+1,326		+1,288	Sub-total	+1,326	+1,288

Other Commodities

Agricultural products	+ 189	+ 348
Animals and animal products	+ 159	+ 142
Fibres, textiles, and textile products	- 356	- 391
Iron and its products	-1,178	-1,746
Non-ferrous metals and their products	+ 434	+ 428
Non-metallic minerals and their products	- 448	- 465
Chemicals and allied products	- 48	- 58
Miscellaneous commodities	- 438	- 394
Sub-total	-1,686	-2,136
Commodity Trade Balance	- 360	- 848

Figures given in this table are obtained by comparing the value of foreign and domestic exports with the value of imports.

Exports of non-monetary gold	155	150

FOREST LAND TENURE

1957

In thousands of acres

Occupied Forest Lands		Net Area
Provincial Crown		
Leases and licences		126,312
Permits and sales		4,255
	Sub-total	130,567
Federal Crown		
Leases and licences		202
Other lands		4,433
	Sub-total	4,635
Privately-owned		
Farm woodlots		22,780
Other private lands		35,032
	Sub-total	57,812
Total Occupied Forest Lands		193,014
Unoccupied Forest Lands		
Provincial Crown		325,233
Federal Crown		52,876
	Sub-total	378,109
Total Productive Forest Lands		571,123

RESERVES AND PARKS

1957

In thousands of acres

	Gross Area
National parks	18,790
Provincial forest reserves*	2,639
Indian reserves	5,895
Federal forest experiment stations**	119
Total	27,443

* Only those areas reserved or dedicated by legislative enactment from cutting operations

** An additional experiment station of 16 thousand acres is included in a national park.

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APR 27 1959

FOREST AREAS

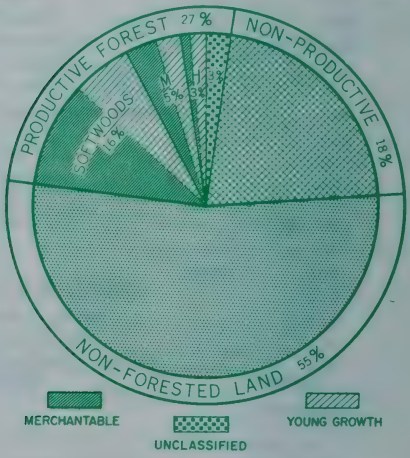
1958

Net area in millions of acres

(thousands of square miles in brackets)

	Merchantable		Young Growth		Total	
Softwoods	235	(368)	144	(224)	379	(592)
Mixedwoods	66	(103)	52	(82)	118	(185)
Hardwoods	24	(36)	35	(55)	59	(91)
Sub-total	325	(507)	231	(361)	556	(868)
Unclassified [1]					59	(92)
Total productive					615	(960)
Accessible productive					461	(720)
Non-productive forests					417	(653)
Total forest area					1,032	(1,613)
Total land area					2,278	(3,560)

[1] Productive forest land not yet restocked



Note: Forests occupy 64 per cent of the land area of the ten provinces and 45 per cent of the land area of Canada.

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MERCHANTABLE TIMBER

1958

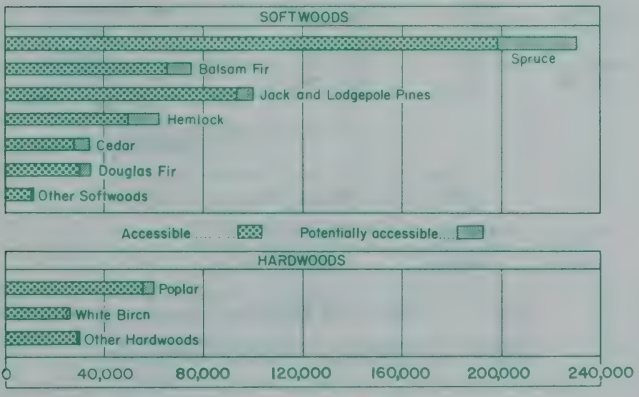
	Softwoods	Hardwoods	Total
	Millions of cubic feet		
Accessible	476,842	108,946	585,788
Potentially accessible [1]	73,050	6,288	79,338
Total Volume	549,892	115,234	665,126

Accessible	Large Material (10" d.b.h. & Over)	Smaller Material (4" - 9" d.b.h.)
	Millions of cubic feet	Millions of cords [2]
Softwoods	291,354	2,182
Hardwoods	51,064	681
Total	342,418	2,863

[1] Excludes the volume on 81 million acres of potentially accessible forested land in Ontario, Quebec and Newfoundland.

[2] In units of 85 cubic feet.

MERCHANTABLE TIMBER BY SPECIES



LAND TENURE - PRODUCTIVE FOREST

1958

In thousands of acres

(square miles in brackets)

Occupied Forest Lands		Net Area
Provincial Crown		
Leases and licences	119,065	(186,039)
Permits and sales	3,665	(5,727)
Sub-total	122,730	(191,766)
Federal Crown		
Leases and licences	191	(298)
Other lands	4,433	(6,927)
Sub-total	4,624	(7,225)
Privately-owned		
Farm woodlots	22,657	(35,402)
Other private lands	36,302	(56,722)
Sub-total	58,959	(92,124)
Total Occupied Forest Lands	186,313	(291,115)
Unoccupied Forest Lands		
Provincial Crown	375,382	(586,534)
Federal Crown	52,887	(82,636)
Sub-total	428,269	(669,170)
Total Productive Forest	614,582	(960,285)

RESERVES AND PARKS

1958

In thousands of acres

(square miles in brackets)

		Gross Area
National parks	18,794	(29,366)
Provincial parks	36,776	(57,463)
Indian reserves	5,900	(9,218)
Federal forest experiment stations [1]	119	(186)
Total	61,589	(96,233)

1 Excludes an additional experiment station of 16 thousand acres, or 25 square miles, in a national park.

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CANADA

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ECONOMICS DIVISION

CANADA'S FORESTS

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FOREST AREAS

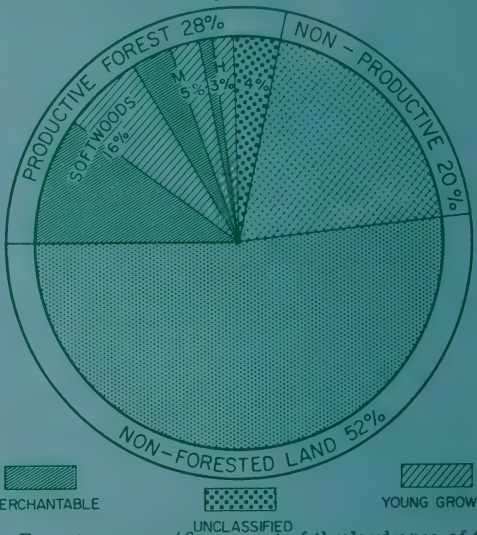
1960

Net area in millions of acres

(thousands of square miles in brackets)

	Merchantable		Young Growth		Total	
Softwoods	228	(357)	176	(274)	404	(631)
Mixedwoods	70	(109)	52	(81)	122	(190)
Hardwoods	24	(38)	35	(55)	59	(93)
Sub-total	322	(504)	263	(410)	585	(914)
Unclassified[1]					55	(86)
Total productive					640	(1,000)
Accessible productive					465	(726)
Non-productive forests					456	(712)
Total forest area					1,096	(1,712)
Total land area					2,279	(3,560)

[1]Productive forest land not yet restocked



Note: Forests occupy 68 per cent of the land area of the ten provinces and 48 per cent of the land area of Canada.

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MERCHANTABLE TIMBER

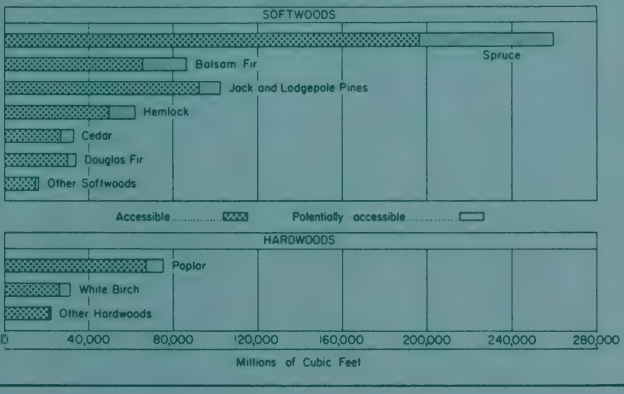
1960

	Softwoods	Hardwoods	Total
	Millions of cubic feet		
Accessible	474,635	113,929	588,564
Potentially accessible	119,273	13,501	132,774
Total Volume	593,908	127,430	721,338

Accessible	Large Material (10" d.b.h. & Over)	Smaller Material (4"-9" d.b.h.)
	Millions of cubic feet	Millions of cords[1]
Softwoods	291,725	2,152
Hardwoods	53,799	707
Total	345,524	2,859

[1] In units of 85 cubic feet

MERCHANTABLE TIMBER BY SPECIES



LAND TENURE - PRODUCTIVE FOREST

1960

In thousands of acres

(square miles in brackets)

Occupied Forest Lands	Net Area	
Provincial Crown		
Leases and licences	120,158	(187,746)
Permits and sales	2,791	(4,361)
Sub-total	122,949	(192,107)
Federal Crown		
Leases and licences	199	(311)
Other lands	2,386	(3,729)
Sub-total	2,585	(4,040)
Privately-owned		
Farm woodlots	22,510	(35,172)
Other private lands	35,635	(55,680)
Sub-total	58,145	(90,852)
Total Occupied Forest Lands	183,679	(286,999)
Unoccupied Forest Lands		
Provincial Crown	402,443	(628,818)
Federal Crown	54,037	(84,432)
Sub-total	456,480	(713,250)
Total Productive Forest	640,159	(1,000,249)

RESERVES AND PARKS

1960

In thousands of acres

(square miles in brackets)

	Gross Area	
National parks	18,739	(29,280)
Provincial and municipal parks	34,597	(54,057)
Indian reserves	5,903	(9,223)
Federal forest experiment stations[1]	119	(186)
Total	59,358	(92,746)

[1] Excludes an additional experiment station of 16,000 acres, or 25 square miles, in a national park.

FOREST INDUSTRIES

1958

Values in millions of dollars

Employment	No. of Employees	Salaries and Wages
Woods operations[1]	67,327[2]	338
Pulp and paper industry	64,084	307
Lumber industry	47,763	143
Wood-using industries	73,159	227
Paper-using industries	28,851	102
Total	281,184	1,117

Net Value of Products[3]	
Woods operations	570
Pulp and paper industry	703
Lumber industry	237
Wood-using industries	369
Paper-using industries	207
Total	2,086

Gross Value of Products	
Woods operations	639
Pulp and paper industry	1,407
Lumber industry	546
Wood-using industries	798
Paper-using industries	498

[1] Excludes transportation - not comparable with previous years.

[2] Man-year basis.

[3] Net value of products is gross or sale value, less cost of materials, fuel, purchased electricity, and process supplies consumed.

FOREST FIRE STATISTICS

	Average Annual 1949-58	Year 1959
	Thousands of acres	
Areas Burned		
Merchantable timber	339	92
Young growth	462	121
Cut-over lands	351	268
Non-forested lands	1,143	221
Total	2,295	702

Fire by Causes	Number	%	Number	%
Smokers	1,096	18.9	815	15.1
Campfires	881	15.2	766	14.2
Railways	790	13.6	843	15.7
Settlers	568	9.8	472	8.8
Miscellaneous known	542	9.3	769	14.3
Industrial operations	271	4.7	324	6.0
Incendiary	157	2.7	206	3.8
Public works	109	1.9	91	1.7
Lightning	1,126	19.4	847	15.7
Unknown	264	4.5	250	4.7
Total	5,804	100.0	5,383	100.0

Merchantable Timber Burned	Thousands of cubic feet	
Large material	111,526	15,250
Smaller material	176,501	79,194
Total	288,027	94,444

Estimated Values Destroyed	Thousands of dollars	
On forest areas[1]	5,603	2,958
Other property	904	1,471

[1]Based on stumpage rates; figures do not include damage to soil, stream-flow, wildlife, recreation and tourist facilities, or the enhanced values resulting from silviculture and management practices.

Costs of Protection	$000's
Costs of fire fighting (1959)	4,254
Other fire protection costs (1958)	26,170

FOREST DEPLETION

Products Utilized	Average Annual 1949-1958 M. cu.ft.	%	Year[1] 1959 M. cu.ft.	%
Industrial Wood				
Logs and bolts				
Domestic use	1,473,782	47.0	1,725,740[2]	55.7
Export	8,787	0.3	4,260	0.1
Pulpwood				
Domestic use	1,078,071	34.4	968,360	31.3
Export	164,749	5.3	94,140	3.0
Poles and piling	22,274	0.7	16,700	0.5
Round mining timber	25,229	0.8	11,050	0.4
Other primary products	18,498	0.6	14,320	0.5
Total Industrial Wood	2,791,390	89.1	2,834,570	91.5
Non-industrial wood[3]	340,792	10.9	262,500	8.5
Total Utilization	3,132,182	100.0	3,097,070	100.0
Wastage by forest fires	288,027		94,444	
Depletion[4]	3,420,209		3,191,514	

1 Preliminary estimate

2 Includes logs for pulping

3 Fuelwood and wood for charcoal

4 The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases, and natural mortality, for which no reliable estimates are available. It represents an average annual depletion of 7 cubic feet per acre on the accessible productive forest area. However, a much higher rate of depletion occurs on the more accessible occupied productive forest lands.

Balance of Trade (excluding gold)
in millions of dollars

Wood, Wood Products and Paper

1958		1959		1958	1959
+ 958	U.S.A.	+ 1,021	Lumber	+ 264	+ 287
+ 125	U.K.	+ 124	Woodpulp	+ 278	+ 302
+ 97	Others	+ 101	Newsprint	+ 690	+ 722
			Other products	- 52	- 65
+ 1,180		+ 1,246	Sub-total	+ 1,180	+ 1,246

Other Commodities

Agricultural products	+ 235	+ 188
Animals and animal products	+ 272	+ 212
Fibres, textiles and textile products	- 364	- 392
Iron and its products	- 1,373	- 1,468
Non-ferrous metals and their products	+ 607	+ 661
Non-metallic minerals and their products	- 425	- 404
Chemicals and allied products	- 88	- 121
Miscellaneous commodities	- 200	- 291
Sub-total	- 1,336	- 1,615
Commodity Trade Balance	- 156	- 369

Note: Figures given in this table are obtained by comparing the value of domestic and foreign exports with the value of imports. They exclude "Special Transactions-Non Trade", comprising various commodity movements which either have no financial implications or, for various reasons, are better considered separately from merchandise trade.

Net exports of non-monetary gold	160	148

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FOREST AREAS

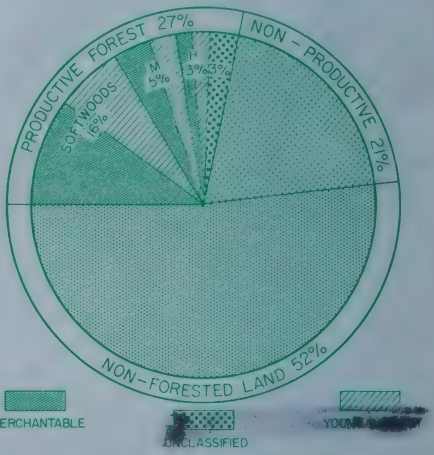
1961

Net area in millions of acres

(thousands of square miles in brackets)

	Merchantable		Young Growth		Total	
Softwoods	228	(356)	148	(231)	376	(587)
Mixedwoods	70	(109)	52	(82)	122	(191)
Hardwoods	25	(38)	35	(55)	60	(93)
Sub-total	323	(503)	235	(368)	558	(871)
Unclassified[1]					57	(89)
Total productive					615	(960)
Accessible productive					459	(718)
Non-productive forests					482	(753)
Total forest area					1,097	(1,713)
Total land area					2,279	(3,560)

[1]Productive forest land not yet restocked



Note: Forests occupy 68 per cent of the land area of the ten provinces and 48 per cent of the land area of Canada.

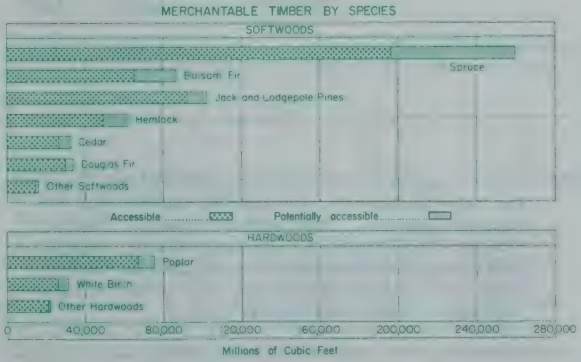
MERCHANTABLE TIMBER

1961

	Softwoods	Hardwoods	Total
	Millions of cubic feet		
Accessible	474,097	114,036	588,133
Potentially accessible	119,040	13,501	132,541
Total Volume	593,137	127,537	720,674

Accessible	Large Material (10" d.b.h. & Over)	Smaller Material (4"-9" d.b.h.)
	Millions of cubic feet	Millions of cords [1]
Softwoods	291,444	2,149
Hardwoods	53,832	708
Total	345,276	2,857

[1] In units of 85 cubic feet



LAND TENURE - PRODUCTIVE FOREST

1961

In thousands of acres

(square miles in brackets)

Occupied Forest Lands	Net Area	
Provincial Crown		
Leases and licences	120,547	(188,355)
Permits and sales	2,785	(4,352)
Sub-total	123,332	(192,707)
Federal Crown		
Leases and licences	219	(342)
Other lands	3,225	(5,039)
Sub-total	3,444	(5,381)
Privately-owned		
Farm woodlots	22,459	(35,092)
Other private lands	33,305	(52,039)
Sub-total	55,764	(87,131)
Total Occupied Forest Lands	182,540	(285,219)
Unoccupied Forest Lands		
Provincial Crown	377,936	(590,525)
Federal Crown	54,017	(84,402)
Sub-total	431,953	(674,927)
Total Productive Forest	614,493	(960,146)

RESERVES AND PARKS

1961

In thousands of acres

(square miles in brackets)

	Gross Area	
National parks	18,739	(29,280)
Provincial and municipal parks	37,730	(58,951)
Indian reserves	5,917	(9,246)
Federal forest experiment stations[1]	68	(106)
Total	62,454	(97,583)

[1] Excludes an additional experiment station of 16,000 acres, or 25 square miles, in a national park.

FOREST INDUSTRIES

1959
Values in millions of dollars

Employment	No. of Employees	Salaries and Wages
Woods operations[1]	82,551[2]	348
Pulp and paper industry	65,028	322
Lumber industry	48,659	145
Wood-using industries	75,132	243
Paper-using industries	29,203	108
Total	300,573	1,166

Value of Products	Net Value[3]	Gross Value
Woods operations	659	716
Pulp and paper industry	761	1,498
Lumber industry	249	572
Wood-using industries	396	856
Paper-using industries	219	531
Total	2,284	

Net Value of Products by Provinces

	Value	%
Newfoundland	53	2.3
Prince Edward Island	2	0.1
Nova Scotia	43	1.9
New Brunswick	91	4.0
Quebec	702	30.7
Ontario	631	27.6
Manitoba	42	1.9
Saskatchewan	12	0.5
Alberta	62	2.7
British Columbia[4]	646	28.3
Total	2,284	100.0

1 Excludes transportation - not comparable with previous years.
2 Man-year basis.
3 Net value of products is gross or sale value, less cost of materials, fuel, purchased electricity, and process supplies consumed.
4 Includes Yukon and Northwest Territories.

FOREST FIRE STATISTICS

	Average Annual 1950-59	Year 1960
	Thousands of acres	
Areas Burned		
Merchantable timber	309	427
Young growth	386	498
Cut-over lands	362	198
Non-forested lands	1,036	493
Total	2,093	1,616

Fire by Causes	Number	%	Number	%
Smokers	1,039	18.4	1,182	13.3
Campfires	844	14.9	1,014	11.4
Railways	796	14.1	2,014	22.7
Settlers	539	9.5	507	5.7
Miscellaneous known	565	10.0	680	7.7
Industrial operations	280	4.9	342	3.9
Incendiary	156	2.8	302	3.4
Public works	103	1.8	102	1.1
Lightning	1,077	19.1	2,256	25.4
Unknown	252	4.5	482	5.4
Total	5,651	100.0	8,881	100.0

Merchantable Timber Burned	Thousands of cubic feet	
Large material	109,191	159,696
Smaller material	165,814	209,910
Total	275,005	369,606

Estimated Values Destroyed	Thousands of dollars	
On forest areas[1]	5,392	9,738
Other property	966	672

[1]Based on stumpage rates; figures do not include damage to soil, stream-flow, wildlife, recreation and tourist facilities, or the enhanced values resulting from silviculture and management practices.

Costs of Protection	$000's
Costs of fire fighting (1960)	9,204
Other fire protection costs (1959)	24,775

FOREST DEPLETION

Products Utilized	Average Annual 1950-59 M. cu.ft.	%	Year[1] 1960 M. cu.ft.	%
Industrial Wood				
Logs and bolts				
Domestic use	1,511,938	47.5	1,714,100[2]	50.2
Export	7,863	0.2	5,900	0.2
Pulpwood				
Domestic use	1,119,119	35.2	1,304,600	38.2
Export	160,186	5.0	97,900	2.9
Poles and piling	21,537	0.7	17,300	0.5
Round mining timber	21,910	0.7	8,500	0.2
Other primary products	18,318	0.6	22,400	0.7
Total Industrial Wood	2,860,871	89.9	3,170,700	92.9
Non-industrial wood[3]	321,358	10.1	242,800	7.1
Total Utilization	3,182,229	100.0	3,413,500	100.0
Wastage by forest fires	275,005		369,600	
Depletion[4]	3,457,234		3,783,100	

1 Preliminary estimate

2 Includes logs for pulping

3 Fuelwood and wood for charcoal

4 The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases, and natural mortality, for which no reliable estimates are available. It represents an average annual depletion of 8 cubic feet per acre on the accessible productive forest area. However, a much higher rate of depletion occurs on the more accessible occupied productive forest lands.

Balance of Trade (excluding gold)
in millions of dollars

Wood, Wood Products and Paper

1959		1960		1959	1960
+ 1,021	U.S.A.	+ 1,031	Lumber	+ 287	+ 316
+ 124	U.K.	+ 170	Woodpulp	+ 302	+ 316
+ 101	Others	+ 128	Newsprint	+ 722	+ 758
			Other products	- 65	- 61
+ 1,246		+ 1,329	Sub-total	+ 1,246	+ 1,329

Other Commodities

Agricultural products	+ 188	+ 153
Animals and animal products	+ 212	+ 180
Fibres, textiles and textile products	- 392	- 388
Iron and its products	- 1,468	- 1,377
Non-ferrous metals and their products	+ 661	+ 772
Non-metallic minerals and their products	- 404	- 326
Chemicals and allied products	- 121	- 95
Miscellaneous commodities	- 291	- 345
Sub-total	- 1,615	- 1,426
Commodity Trade Balance	- 369	- 97

Note: Figures given in this table are obtained by comparin the value of domestic and foreign exports with the value of imports. They exclude "Special Transactions-Non Trade", comprising various commodity movements which either have no financial implications or, for various reasons, are better considered separately from merchandise trade.

Net exports of non-monetary gold	148	162

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CANADA'S FORESTS

1963

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FOREST AREAS

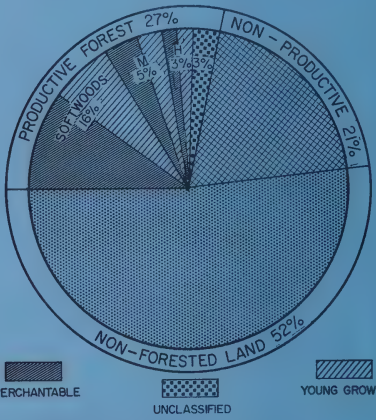
1962

Net area in Millions of Acres

(thousands of square miles in brackets)

	Merchantable		Young Growth		Total	
Softwoods	228	(356)	148	(231)	376	(587)
Mixedwoods	70	(109)	52	(81)	122	(190)
Hardwoods	24	(38)	35	(55)	59	(93)
Sub-total, Merch. & Young Growth	322	(503)	235	(367)	557	(870)
Unclassified[1]					59	(93)
TOTAL PRODUCTIVE AREA					616	(963)
Accessible productive					461	(720)
TOTAL NON-PRODUCTIVE					481	(751)
TOTAL FOREST AREA OF CANADA					1,097	(1,714)
TOTAL LAND AREA OF CANADA					2,279	(3,560)

[1]Productive forest land not yet restocked



NOTE: 48 per cent of the land area of Canada and 68 per cent of the land area of the ten provinces is forest land.

MERCHANTABLE TIMBER

1962

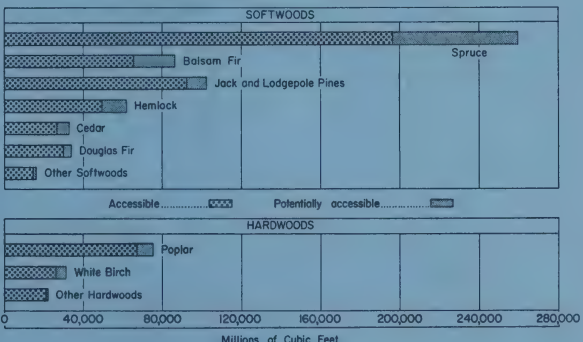
Volume in Millions of Cubic Feet

	Softwoods	Hardwoods	Total
ACCESSIBLE			
Large material[1]	291,290	53,708	344,998
Small material[2]	182,473	59,988	242,461
TOTAL	473,763	113,696	587,459
POTENTIALLY ACCESSIBLE	119,069	13,513	132,582
TOTAL VOLUME	592,832	127,209	720,041

[1]Large material 10" d.b.h. and over.

[2]Small material 4" to 9" d.b.h.

VOLUME OF MERCHANTABLE TIMBER BY SPECIES



LAND TENURE - PRODUCTIVE FOREST

1962

In Thousands of Acres

(square miles in brackets)

Occupied[1] Forest Lands	Net Area	
Provincial Crown		
Leases and licences	134,613	(210,333)
Permits and sales	2,615	(4,086)
Sub-total	137,228	(214,419)
Federal Crown		
Leases and licences	213	(333)
Other lands	3,858	(6,028)
Sub-total	4,071	(6,361)
Privately-owned		
Farm woodlots	17,125	(26,758)
Other private lands	37,657	(58,839)
Sub-total	54,782	(85,597)
TOTAL OCCUPIED FOREST LANDS	196,081	(306,377)
Unoccupied Forest Lands		
Provincial Crown	366,419	(572,530)
Federal Crown	53,389	(83,420)
TOTAL UNOCCUPIED FOREST LANDS	419,808	(655,950)
TOTAL PRODUCTIVE FOREST	615,889	(962,327)

[1]Occupied = privately owned or leased from Crown for cutting purposes.

RESERVES AND PARKS

1962

In Thousands of Acres

(square miles in brackets)

	Gross Area	
National Parks	18,737	(29,276)
Provincial and municipal parks	25,540	(39,906)
Indian reserves	5,926	(9,259)
Federal forest experiment stations[1]	68	(106)
Total	50,271	(78,547)

[1]Excludes an additional experiment station of 16,000 acres, or 25 square miles, in a national park.

FOREST INDUSTRIES

1960

Employment, Salaries and Wages

Industry	No. of Employees	Salaries and Wages
		$ 000,000
Woods operations[1]	86,539[2]	375
Pulp and paper	65,642	344
Lumber	46,607	153
Wood-using industries	71,662	240
Paper-using industries	29,791	114
Total	300,241	$ 1,226

Value of Products

Industry	Net Value[3]	Gross Value
	$ 000,000	$ 000,000
Woods operations	734	806
Pulp and paper	812	1,580
Lumber	252	591
Wood-using industries	375	816
Paper-using industries	224	552
Total	$ 2,397	

Net Value of Products by Provinces

	Value	%
	$ 000,000	
Newfoundland	65	2.7
Prince Edward Island	2	0.1
Nova Scotia	44	1.8
New Brunswick	106	4.4
Quebec	710	29.6
Ontario	664	27.7
Manitoba	41	1.7
Saskatchewan	13	0.6
Alberta	67	2.8
British Columbia[4]	685	28.6
Total	$ 2,397	100.0

1 Excludes transportation.

2 Man-year basis.

3 Net value of products is gross or sale value, less cost of materials, fuel, purchased electricity, and process supplies consumed.

4 Includes Yukon and Northwest Territories.

FOREST FIRE STATISTICS

	Average Annual 1951-60	Year 1961
	Thousands of Acres	
Areas Burned		
Merchantable timber	324	2,859
Young growth	405	1,995
Cut-over lands	327	378
Non-forested lands	895	4,081
Total	1,951	9,313

Fire by Causes	Number	%	Number	%
Smokers	1,014	18.5	1,596	18.5
Campfires	843	15.3	1,085	12.5
Railways	461	8.4	296	3.4
Settlers	529	9.6	774	8.9
Industrial operations	288	5.2	391	4.5
Incendiary	168	3.1	367	4.3
Public works	108	2.0	115	1.3
Lightning	1,236	22.5	2,901	33.5
Miscellaneous known	590	10.7	638	7.4
Unknown	259	4.7	492	5.7
Total	5,496	100.0	8,655	100.0

Merchantable Timber Burned	Thousands of Cubic Feet	
Large material	99,755	1,873,013
Smaller material	193,509	776,983
Total	293,264	2,649,996

Estimated Values Destroyed	Thousands of Dollars	
On forested areas[1]	5,977	66,360
Other property	1,030	2,766

[1] Wood values are based on prevailing stumpage rates only; damages to soil, site quality, stream-flow regulation, wildlife, recreational and similar values are not included.

Costs of Protection	$000's
Cost of fire fighting 1961	13,488
Other fire protection costs 1960	28,082

FOREST DEPLETION

	Average Annual 1951-60		Year[1] 1961	
	Millions of cubic feet	%	Millions of cubic feet	%
By Utilization				
Industrial Wood				
Logs and bolts				
Domestic use	1,544	47.9	1,722	52.6
Export	7	0.2	18	0.5
Pulpwood				
Domestic use	1,149	35.6	1,143	34.9
Export	155	4.8	98	3.0
Poles and piling	21	0.7	18	0.5
Round mining timber	21	0.7	10	0.3
Other primary products	19	0.6	25	0.8
Total Industrial Wood	2,916	90.5	3,034	92.6
Fuelwood	305	9.5	243	7.4
TOTAL UTILIZATION	3,221	100.0	3,277	100.0
Wastage by Forest Fires	293		2,650	
TOTAL DEPLETION[2]	3,514		5,927	

[1] Preliminary estimates.

[2] The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases and natural mortality, for which no reliable estimates are available. It represents an average annual depletion of 8 cubic feet per acre on the accessible productive forest area. However, a much higher rate of depletion occurs on occupied forest lands.

EXTERNAL TRADE

Balance of Merchandise Trade (excluding gold) in millions of dollars

Wood, Wood Products and Paper

		1960		1961			1960		1961
U.S.A.	+	1,032	+	1,038	Lumber	+	316	+	324
U.K.	+	170	+	168	Woodpulp	+	316	+	338
Others	+	127	+	151	Newsprint	+	758	+	761
					Other Products	-	61	-	66
Sub-total	+	1,329	+	1,357	Sub-total	+	1,329	+	1,357

Other Commodities

Agricultural products	+	154	+	380
Animals and animal products	+	182	+	196
Fibres, textiles and textile products	-	385	-	408
Iron and its products	-	1,377	-	1,359
Non-ferrous metals and their products	+	764	+	720
Non-metallic minerals and their products	-	323	-	250
Chemicals and allied products	-	95	-	120
Miscellaneous commodities	-	345	-	392
Sub-total	-	1,425	-	1,233
Commodity Trade Balance	-	96	+	124

NOTE: The balance of trade is obtained by totalling domestic and foreign exports and subtracting the imports for consumption. They exclude "Special Transactions - Non Trade", comprising various commodity movements which either have no financial implications or, for various reasons, are better considered separately from merchandise trade.

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CANADA'S FORESTS 1965

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SELECTED STATISTICS

world forestry data

RESOURCES, 1963

	AREA OF PRODUCTIVE FOREST[1]	GROWING STOCK[2]	
	millions of acres	*billions of cubic feet*	
		CONIFERS	NON-CONIFERS
North America	1,028	1,165	388
Canada	554	671	176
United States	474	494	212
Central America	126	7	21
South America	741	18	2,720
Africa	692	4	131
Europe	299	268	152
U.S.S.R.	1,730	2,331	459
Asia	815	212	388
Pacific Area	119	14	120
WORLD	5,550	4,019	4,379

ROUNDWOOD PRODUCTION[3], AVERAGE 1960-62

	millions of cubic feet	
	INDUSTRIAL	FUELWOOD
North America	12,289	1,624
Canada	3,143	247
United States	9,146	1,377
Central America	247	1,271
South America	918	5,474
Africa	777	6,145
Europe	7,875	3,531
U.S.S.R.	9,076	3,567
Asia	4,309	9,111
Pacific Area	565	318
WORLD	36,056	31,041

[1]Excludes unstocked and unclassified forest lands and protection forests.
[2]Covers 55% forest area. Covers most of the coniferous but only a small part of the non-coniferous forest area. Includes bark.
[3]Does not include bark.

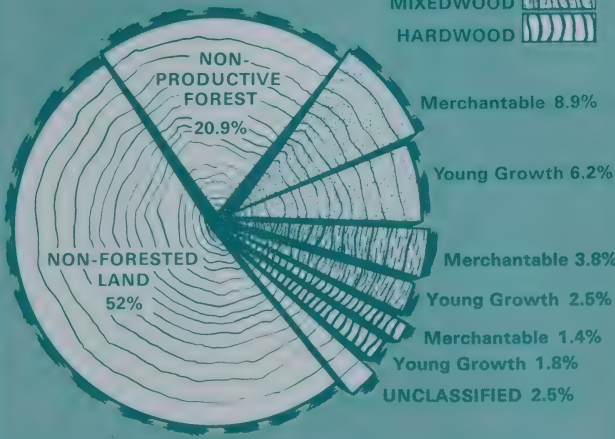
SOURCE: FAO World Forest Inventory, 1963.

area classification

thousands of acres

	MERCHANTABLE	YOUNG GROWTH	TOTAL
FOREST LAND			
PRODUCTIVE			
Softwood	202,987	142,312	345,299
Mixedwood	86,879	57,505	144,384
Hardwood	32,373	41,138	73,511
Sub-total	322,239	240,955	563,194
Unclassified[1]			56,291
TOTAL PRODUCTIVE			619,485
NON-PRODUCTIVE			475,419
TOTAL FOREST LAND			1,094,904
NON-FORESTED LAND			1,183,648
TOTAL LAND			2,278,552
WATER			186,606
TOTAL CANADA			2,465,158

[1]Productive forest land not yet restocked.



tenure of productive forest land

PROVINCIAL CROWN	*thousands of acres*
Occupied	
Leases and licenses	136,980
Permits and sales	2,536
Other[1]	10
Sub-total	139,526
Unoccupied	365,858
TOTAL PROVINCIAL	505,384

FEDERAL CROWN	*thousands of acres*
Occupied	
Leases and licenses	205
Other[2]	2,520
Sub-total	2,725
Unoccupied	54,024
TOTAL FEDERAL	56,749

PRIVATE	*thousands of acres*
Farm woodlots	16,175
Other[3]	41,177
TOTAL PRIVATE	57,352
TOTAL CANADA	619,485

[1]Forest experiment stations.

[2]Forest experiment stations, Indian reserves and military areas.

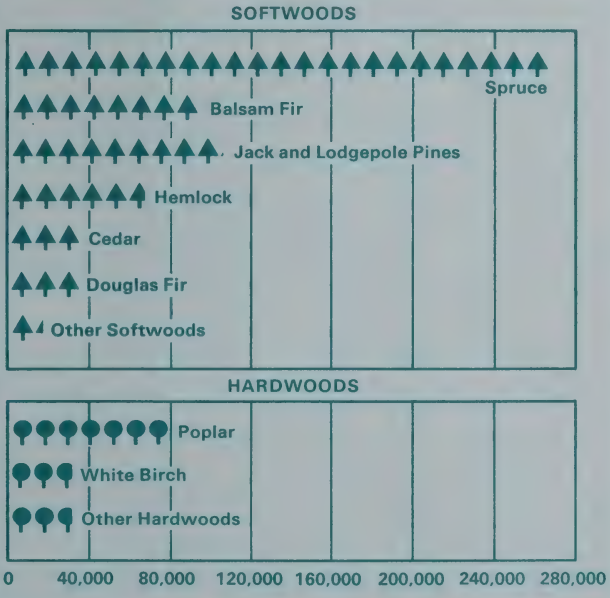
[3]Municipal, county, and other.

merchantable timber

millions of cubic feet

	LARGE MATERIAL 10″+ dbh	SMALLER MATERIAL 4″-9″ dbh	TOTAL
Softwoods	400,272	211,005	611,277
Hardwood	78,893	61,713	140,606
TOTAL	479,165	272,718	751,883

VOLUME BY SPECIES — *millions of cubic feet*



provincial data

PRODUCTIVE FOREST LAND	*thousands of acres*
Newfoundland	21,672
Prince Edward Island	520
Nova Scotia	9,651
New Brunswick	15,288
Quebec	141,200
Ontario	105,323
Manitoba	37,241
Saskatchewan	32,153
Alberta	74,606
British Columbia	133,383
SUB-TOTAL	571,037
Yukon Territory	26,944
Northwest Territories	21,504
TOTAL CANADA	619,485

MERCHANTABLE TIMBER	*millions of cubic feet*
Newfoundland	14,296
Prince Edward Island	250
Nova Scotia	9,782
New Brunswick	16,871
Quebec	108,132
Ontario	111,570
Manitoba	12,846
Saskatchewan	23,072
Alberta	54,960
British Columbia	376,919
SUB-TOTAL	728,698
Yukon Territory	9,156
Northwest Territories	14,029
TOTAL CANADA	751,883

forest depletion

millions of cubic feet

	ANNUAL AVERAGE 1952-61		1962	
	VOLUME	%	VOLUME	%
UTILIZATION				
INDUSTRIAL				
Logs and bolts				
Domestic use	1,568	48.8	1 882	54 9
Export	8	.3	12	3
Pulpwood				
Domestic use	1 144	35.6	1 139	33 2
Export	140	4.4	104	3.0
Poles and piling	22	7	26	8
Round mining timber	19	6	6	1
Other primary products	19	8	34	1 0
TOTAL INDUSTRIAL	2,920	91.0	3,203	93 3
Fuelwood	290	9.0	229	6.7
TOTAL UTILIZATION	3,210	100.0	3,432	100.0
Forest Fire Losses	535		126	
TOTAL DEPLETION[1]	3,745		3,557	

[1]Does not include losses caused by insects, disease or natural mortality, for which no reliable estimates are available. Losses from insects and disease alone are estimated to be in excess of one billion cubic feet of merchantable timber annually.

forest fire statistics

	ANNUAL AVERAGE 1954-63	1964
AREAS BURNED	*thousands of acres*	
Merchantable timber	567	684
Young growth	510	634
Cut-over lands	317	32
Non-forested lands	994	1,643
TOTAL	2,388	2,993
MERCHANTABLE TIMBER BURNED	*millions of cubic feet*	
Large material	272	15
Smaller material	248	273
TOTAL	520	288
ESTIMATED VALUES DESTROYED[1]	*thousands of dollars*	
On forested areas	12,852	6,204
Other property	753	319
TOTAL	13,605	6,523

FIRE BY CAUSES	1963		1964	
	NUMBER	%	NUMBER	%
Recreation	2,080	27	1,617	23
Settlement	864	11	959	14
Woods operations	124	2	217	3
Other industries	417	5	238	3
Railroads	231	3	220	3
Incendiary	323	4	381	6
Miscellaneous known	1,040	14	932	13
Unknown	240	3	391	6
TOTAL MAN-CAUSED	5,319	69	4,955	71
Lightning	2,351	31	1,989	29
TOTAL	7,670	100	6,944	100

COSTS OF PROTECTION	1963
Costs of fire-fighting	$ 4,773,000
Capital, maintenance and overhead	$28,903,000
TOTAL	$33,676,000

[1]Based on prevailing stumpage rates only; damage to soil, site quality, stream-flow regulation, wildlife, recreational and similar values are not included.

forest industries

1963

EMPLOYMENT, SALARIES AND WAGES[1] — *millions of dollars*

	EMPLOYEES (NUMBER)	SALARIES AND WAGES
Logging[2]	85,300[3]	399
Pulp and paper	65,000	364
Sawmills	46,000	189
Wood-using industries	73,800	277
Paper-using industries	32,000	142
TOTAL	303,100	1,371

VALUE OF PRODUCTS[1] — *millions of dollars*

	VALUE ADDED[4]	GROSS VALUE
Logging[2]	747	888
Pulp and paper	922	1,790
Sawmills	331	719
Wood-using industries	466	981
Paper-using industries	272	663
TOTAL	2,738	

VALUE ADDED[1] **BY PROVINCES** — *millions of dollars*

	VALUE	%
Newfoundland	54	2
Prince Edward Island	1	–
Nova Scotia	48	2
New Brunswick	97	3
Quebec	786	29
Ontario	729	27
Manitoba	47	2
Saskatchewan	15	–
Alberta	77	3
British Columbia[5]	884	32
TOTAL	2,738	100

[1] Total activity.

[2] 1962 data.

[3] Man-year basis.

[4] Gross or sale value, less cost of material, fuel, purchased electricity, and process supplies consumed.

[5] Includes Yukon and Northwest Territories.

exports

	VOLUME		VALUE	
	1963	1964	1963	1964
WOOD, WOOD PRODUCTS AND PAPER			*millions of dollars*	
PRIMARY PRODUCTS				
Logs and bolts—million fbm	93	67	6	6
Pulpwood—thousand rough cords	1,114	1,235	26	28
Other			23	21
SUB-TOTAL			55	55
WOOD PULP *thousand tons*				
Mechanical	252	289	17	19
Chemical	3,088	3,308	388	437
SUB-TOTAL	3,340	3,597	405	456
PAPER AND PAPERBOARD *thousand tons*				
Newsprint	6,212	6,815	760	835
Other paper and paperboard	343	403	52	62
SUB-TOTAL	6,555	7,218	812	897
LUMBER *million fbm*				
Softwoods	6,095	6,325	427	450
Hardwoods	155	163	28	30
SUB-TOTAL	6,250	6,488	455	480
VENEER AND PLYWOOD *million sq. ft.*				
Veneer, all thicknesses	782	859	25	29
Plywood, ¼" basis	329	504	28	38
OTHER WOOD AND PAPER PRODUCTS			69	72
TOTAL WOOD, WOOD PRODUCTS AND PAPER			1,849	2,027
All Other Commodities			4,950	6,068
TOTAL DOMESTIC EXPORTS[1]			6,799	8,095

[1]Goods wholly produced, and imports further processed, in Canada.

provincial data

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Newfoundland	21,672
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